

RARE NATIVE PLANTS OF RHODE ISLAND - January, 2002

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The flora of Rhode Island includes roughly 1700 plant taxa of which approximately 1300 (77%) are considered to be native. The following list identifies those members of the native flora which are the rarest in Rhode Island and most in need of conservation. All plant taxa listed herein are currently being tracked by the Rhode Island Natural Heritage Program through comprehensive mapping and computerized databases. Information regarding the location and status of rare elements, including plants, animals and natural communities, is used to establish priorities for land preservation and to provide guidance within the environmental review process.

The Rhode Island Natural Heritage Program was established in 1978. During the first year of operation an initial listing of rare plants was derived from two previously published lists: *Endangered Plants of Rhode Island*, by Dr. Irene Stuckey; and *Rare and Endangered Vascular Plant Species in Rhode Island*, by Dr. George L. Church and Richard L. Champlin. The latter publication was the Rhode Island contribution to a regional assessment of rare plants prepared by the New England Botanical Club in cooperation with the U.S. Fish and Wildlife Service. More recently, the New England Plant Conservation Program (NEPCoP - established in 1991) has conducted an exhaustive reassessment of the region's flora in preparation of *Flora Conservanda: New England - the NEPCoP list of plants in need of conservation*. This list, published in 1996, provides a regional perspective to the Rhode Island list, and a clear picture of regional conservation priorities.

Since 1978, the Natural Heritage Program has gathered information from many sources, particularly herbaria, published reports, and botanical field notes to refine the Rhode Island state list. The author, along with several other professional and amateur botanists, has also spent considerable time verifying the locations and identities of rare plants throughout the state. This combined effort has made the Natural Heritage Program's database the largest repository of rare plant information in Rhode Island.

The rare plant list is amended annually to reflect the most up-to-date knowledge of plant distribution, status, and taxonomy. Although the number of plants on the rare list has remained relatively constant, certain species have been deleted when found to be more common or less vulnerable to extirpation than originally thought, while others have been added following similar status assessment, or when newly discovered in Rhode Island. (These may be new colonizers or may have been overlooked in the past.) The January 2002 edition of the *Rare Native Plants of Rhode Island* includes 309 plants, or approximately 24% of the state's native flora.

ABOUT THIS LIST

The list is arranged alphabetically by botanical family, genus and species. Trinomials are used to describe certain subspecies and varieties.

Nomenclature

The taxonomic authority for scientific names is:

Gould, L.L., R.W. Enser, R.L. Champlin, and I.S. Stuckey. 1998. *Vascular Flora of Rhode Island: A list of Native and Naturalized Plants*. Volume 1 of The Biota of Rhode Island project. Rhode Island Natural History Survey, Kingston, RI.

Copies of Gould, *et.al.* are available from:

Rhode Island Natural History Survey
Room 101, the Coastal Institute in Kingston
1 Greenhouse Road
University of Rhode Island
Kingston, RI 02881-0804

Extant Populations

The number cited refers to extant populations known since 1985. (There are a few instances of populations being destroyed since this date - these are not included in the count.) The number of distinct populations of some species, especially aquatics, is often difficult to determine. Population numbers for these species are based on the assumption that occurrences within the same reach of a river, or separate portions of a pond, lake, or other contiguous wetland system are considered one population.

Status

The status of each species is designated by letter codes as defined below:

(FE) Federally Endangered

(1 RI species currently listed)

(FT) Federally Threatened

(2 RI species currently listed)

(SE) State Endangered

Native taxa in imminent danger of extirpation from Rhode Island. These taxa may meet one or more of the following criteria:

1. A taxon formerly considered by the U.S. Fish & Wildlife Service for listing as Federally endangered or threatened. These species were identified as **C2** (Category 2) taxa for which information indicated that proposing to list under the Federal Endangered Species Act was potentially appropriate, but for which sufficient data on biological vulnerability and threat were not currently available to support proposed rules. The US Fish & Wildlife Service is currently not designating Category 2 species.
2. A taxon with 1 or 2 known or estimated total populations in the state.
3. A taxon apparently globally rare or threatened, estimated to occur at approximately 100 or fewer sites range-wide.

Plants listed as State Endangered are protected under the provisions of the Rhode Island State Endangered Species Act, Title 20 of the General Laws of the State of Rhode Island. This law states, in part (20-37-3):

"No person shall buy, sell, offer for sale, store, transport, import, export, or otherwise traffic in any animal or plant or any part of any animal or plant whether living or dead, processed, manufactured, preserved or raw (if) such animal or plant has been declared to be an endangered species by either the United States secretaries of the Interior or Commerce or the Director of the Rhode Island Department of Environmental Management."

(ST) State Threatened

Native taxa which are likely to become State Endangered in the future if current trends in habitat loss or other detrimental factors remain unchanged. In general, these taxa have 3-5 known or estimated populations and are especially vulnerable to habitat loss.

(C) Concern

Native taxa not considered to be State Endangered or Threatened at the present time, but are listed due to various factors of rarity and/or vulnerability.

(SH) State Historical

Native taxa which have been documented for Rhode Island during the last 150 years but for which there are no extant populations. When known, the year of last documented occurrence is included.

Note on Status Designation:

For most listed plants the definitions outlined above have been adhered to when assigning status. In some cases, especially for those species which have not received intensive field inventory, the "Concern" category is assigned even if only 1-2 populations are known to be extant. These species are targeted for additional inventory and may be assigned to other categories when their actual status in Rhode Island has been clarified. Taxa so-defined are designated with an asterisk (*).

Global Rank

Each taxon has been assigned a “global rank” that reflects its rarity and vulnerability to extinction throughout the world. Global ranks were originally derived by The Nature Conservancy and are used by all Natural Heritage Programs as a standardized method of determining the status of each taxon throughout its range. These ranks are defined as follows:

- G1 = Critically imperiled throughout its range due to extreme rarity (5 or fewer sites or very few remaining individuals) or extremely vulnerable to extinction due to biological factors.
- G2 = Imperiled throughout its range due to rarity (6-20 sites or few remaining individuals) or highly vulnerable to extinction due to biological factors.
- G3 = Either very rare and local throughout its range (21-100 sites), with a restricted range (but possibly locally abundant), or vulnerable to extinction due to biological factors.
- G4 = Apparently secure throughout its range (but possibly rare in parts).
- G5 = Demonstrably secure throughout its range (but possibly rare in parts).
- GH = No extant sites known, but may be rediscovered.
- GX = Believed to be extinct.

T-ranks: Sometimes amended to a G rank to indicate the designation is for a subspecies or variety, not the rarity of the species as a whole.

Double Ranks (i.e., G2G3): The first rank indicates rarity based on current documentation. The second rank indicates the probable rarity after all historical records and potential habitats have been surveyed. Denotes taxa needing additional survey.

NEPCoP Status

Designation indicates the inclusion of the taxon on *Flora Conservanda*: New England. The New England Plant Conservation Program (NEPCoP) list of plants in need of conservation. Taxa on this list are assigned to one of 5 Divisions based on the following definitions:

- Div 1: Globally rare taxa occurring in New England. Taxa in this division have been ranked as globally rare (G1 through G3, or T1 through T3) under criteria described above.
- Div 2: Regionally rare taxa with fewer than 20 current occurrences within New England.
- Div 3: Locally rare taxa that may be common in part of New England, but have one or more occurrences of biological, ecological, or possible genetic significance.
- Div 4: Historic taxa that once existed in New England, but have not been seen since 1970.
- IND: Indeterminate taxa which are under review for inclusion in one of the above divisions, but issues of taxonomy, nomenclature, or status in the wild are not clearly understood.

County of Occurrence

Each county is designated by the first three letters of its name as follows:

PRO = Providence; BRI = Bristol; KEN = Kent; NEW = Newport; WAS = Washington. In addition, Block Island (actually part of Washington County) is designated by the letters BLO. Counties are identified for extant populations only, except in the case of Historic species in which the last county of occurrence is given.

FUTURE REVISIONS

The listing of rare species is an ongoing process requiring annual revisions to reflect the best scientific information available concerning the circumstances of rarity, as well as our increased knowledge of the native flora. Submission of additional data on species currently listed, or on other species which may warrant listing, is encouraged. Information should be sent to:

Rhode Island Natural Heritage Program
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908
Telephone: (401) 222-2776 extension 4308
Fax: (401) 222-2069
Email: renser@dem.state.ri.us

ACKNOWLEDGMENTS

Many people have shared their knowledge of the Rhode Island flora, helping me to provide the most complete assessment of rare plants in the state. In particular I would like to thank the following individuals: William E. Brumback, Caren A. Caljouw, Richard L. Champlin, Gilbert George, Lisa L. Gould, Julie Lundgren, Les Mehrhoff, Joanne Michaud, William Nichols, Christopher Raithel, Thomas Rawinski, Bruce Sorrie, Irene Stuckey, Gordon Tucker and Frances Underwood.

Rhode Island Rare Plant Scorecard - 2002

	SE*	ST	C	SH**	Total
Pteridophytes	6	2	12	1	21
Gynosperms	-	1	2	-	3
Angiosperms	45	54	125	61	285
Total	51	57	139	62	309

*includes one Federally Threatened, and one Federally Endangered species

** includes one Federally Threatened species

Species	Common Name	Extant Pop	Counties of Occurrence	State Status	Global Rank	NEPCoP List
<u>PTERIDOPHYTES</u>						
Aspleniaceae (Spleenwort Family)						
<i>Asplenium montanum</i>	Mountain Spleenwort	1	PRO	SE	G5	Div 2
<i>Asplenium rhizophyllum</i>	Walking Fern	1	PRO	SE	G5	
<i>Asplenium trichomanes</i>	Maidenhair Spleenwort	9	PRO;KEN;WAS	C	G5	
Equisetaceae (Horsetail Family)						
<i>Equisetum fluviatile</i>	Water Horsetail	3	PRO;WASC	G5		
<i>Equisetum hyemale</i> ssp. <i>affine</i>	Rough Horsetail	7	PRO;KEN;WAS	C	G5T5	
<i>Equisetum sylvaticum</i>	Woodland Horsetail	10	PRO;BRI;WAS	C	G5	
Dryopteridaceae (Wood Fern Family)						
<i>Gymnocarpium dryopteris</i>	Oak Fern	3	PRO;KEN	ST	G5	
<i>Matteuccia struthiopteris</i> var. <i>pennsylvanica</i>	Ostrich Fern	5	PRO;KEN	C	G5T5	
<i>Woodsia ilvensis</i>	Rusty Woodsia	0 (1977)	PRO	SH	G5	
Isoetaceae (Quillwort Family)						
<i>Isoetes echinospora</i>	Spiny Quillwort	2	PRO;KEN	C	G5	
<i>Isoetes engelmannii</i>	Engelmann's Quillwort	2	PRO;KEN	C	G4	
<i>Isoetes riparia</i>	River Quillwort	4	PRO;KEN	C	G5	Div 2
Lycopodiaceae (Clubmoss Family)						
<i>Lycopodiella alopecuroides</i>	Foxtail Clubmoss	1	WAS	SE	G5	Div 2
<i>Lycopodium annotinum</i>	Stiff Clubmoss	1	PRO	SE	G5	
Ophioglossaceae (Adder's-tongue Family)						
<i>Botrychium lanceolatum</i> ssp. <i>angustisegmentum</i>	Triangle Grape-fern	2	PRO;KEN	C	G5T4	
<i>Botrychium matricariifolium</i>	Daisyleaf Grape-fern	4	PRO;KEN	C	G5	
<i>Botrychium simplex</i>	Dwarf Grape-fern	5	PRO;KEN;WAS	C	G5	
<i>Ophioglossum pusillum</i>	Northern Adder's-tongue	1	WAS	SE	G5	Div 3
Pteridaceae (Maidenhair Fern Family)						
<i>Pellaea atropurpurea</i>	Purple Cliff-brake	1	PRO	SE	G5	
Schizaeaceae (Curly-grass Fern Family)						
<i>Lygodium palmatum</i>	Climbing Fern	6	PRO;KEN;WAS	C	G4	
Thelypteridaceae (Marsh Fern Family)						
<i>Phegopteris connectilis</i>	Long Beech Fern	3	PRO;KEN	ST	G5	
<u>GYMNOSPERMS</u>						
Taxaceae (Yew Family)						
<i>Taxus canadensis</i>	Ground Hemlock	3	PRO	C	G5	
Pinaceae (Pine Family)						
<i>Larix laricina</i>	American Larch	3	PRO;KEN	ST	G5	
<i>Picea mariana</i>	Black Spruce	9	PRO;KEN	C	G5	
<u>ANGIOSPERMS</u>						
Aceraceae (Maple Family)						
<i>Acer pensylvanicum</i>	Striped Maple	4	PRO	C	G5	
<i>Acer spicatum</i>	Mountain Maple	1	PRO	ST	G5	
Alismataceae (Water-Plantain Family)						
<i>Sagittaria graminea</i>	Grass-leaved Arrowhead	4	KEN;WAS	C	G5	
<i>Sagittaria subulata</i>	River Arrowhead	0 (1895)	PRO	SH	G4	Div 2
<i>Sagittaria teres</i>	Slender Arrowhead	3	WAS	SE	G3	Div 1

Species	Common Name	Extant Pop	Counties of Occurrence	State Status	Global Rank	NEPCoP List
Amaranthaceae (Amaranth Family)						
<i>Amaranthus pumilus</i>	Seabeach Amaranth	0 (1897)	NEW	FT/SH	G2	Div 4
Apiaceae (Parsley Family)						
<i>Angelica atropurpurea</i>	Large Angelica	1	PRO	SE	G5	
<i>Angelica lucida</i>	Seaside Angelica	3	WAS;BLO	ST	G5	IND
<i>Cryptotaenia canadensis</i>	Honewort	5	PRO	C	G5	
<i>Hydrocotyle verticillata</i>	Saltpond Pennywort	0 (1895)	BLO	SH	G5	Div 2
<i>Ligusticum scothicum</i>	Scotch Lovage	10	NEW;WAS	C	G5	
<i>Lilaeopsis chinensis</i>	Lilaeopsis	0 (1900)	PRO	SH	G5	Div 3
<i>Osmorhiza longistylis</i>	Anise-root	3	PRO;KEN ST	G5		
<i>Ptilimnium capillaceum</i>	Mock Bishop's Weed	7	NEW;WAS;BLO	C	G5	
<i>Taenidia integerrima</i>	Yellow Pimpernel	0 (1886)	PRO	SH	G5	Div 2
<i>Zizia aptera</i>	Heart-leaved Golden Alexanders	0 (1920)	WAS	SH	G5	Div 2
<i>Zizia aurea</i>	Golden Alexanders	10	PRO	C	G5	
Araceae (Arum Family)						
<i>Orontium aquaticum</i>	Golden Club	1	WAS	SE	G5	
Araliaceae (Ginseng Family)						
<i>Aralia racemosa</i>	Spikenard	5	PRO;KEN	C	G5	
<i>Panax quinquefolius</i>	American Ginseng	1	PRO	SE	G4	
Asclepiadaceae (Milkweed Family)						
<i>Asclepias amplexicaulis</i>	Blunt-leaved Milkweed	7	PRO;KEN;WAS	C	G5	
<i>Asclepias exaltata</i>	Poke Milkweed	4	PRO;KEN;WAS	C	G5	
<i>Asclepias purpurascens</i>	Purple Milkweed	0 (1906)	WAS	SH	G4G5	Div 2
<i>Asclepias quadrifolia</i>	Four-leaved Milkweed	4	PRO	ST	G5	
<i>Asclepias tuberosa</i>	Butterfly Milkweed	8	WAS;BLO	C	G5	Div 3
<i>Asclepias verticillata</i>	Whorled Milkweed	4	PRO;BRI;NEW	C	G5	
Asteraceae (Aster Family)						
<i>Artemisia campestris</i> ssp. <i>caudata</i>	Tall Wormwood	3	NEW;WAS	C	G5T5	Div 3
<i>Aster concolor</i>	Eastern Silvery Aster	0 (1925)	WAS	SH	G4	Div 2
<i>Aster infirmus</i>	Cornel-leaved Aster	0 (1965)	PRO	SH	G5	Div 2
<i>Aster laevis</i>	Smooth Blue Aster	4	KEN;WAS	C	G5	
<i>Aster macrophyllus</i>	Large-leaved Aster	5	PRO;WASC	G5		
<i>Bidens connata</i>	Swamp Beggar's-ticks	2	WAS;BLO	C	G5	
<i>Bidens coronata</i>	Tickseed Sunflower	3	WAS	C	G5	
<i>Cacalia suaveolens</i>	Indian-plantain	0 (1930)	PRO	SH	G3G4	Div 4
<i>Chrysopsis falcata</i>	Sickle-leaved Golden Aster	8	KEN;WAS	C	G3G4	
<i>Chrysopsis mariana</i>	Maryland Golden Aster	1	BLO	ST	G5	Div 2
<i>Cirsium horridulum</i>	Yellow Thistle	1	BLO	ST	G5	IND
<i>Coreopsis rosea</i>	Pink Tickseed	7	KEN;WAS	C	G3	Div 1
<i>Eupatorium aromaticum</i>	Snakeroot	0 (1979)	WAS	SH	G4G5	Div 2
<i>Eupatorium leucolepis</i> var. <i>novae-angliae</i>	New England Boneset	5	NEW;WAS	SE	G5T1	Div 1
<i>Gnaphalium purpureum</i>	Purple Cudweed	0 (1913)	BLO	SH	G5	Div 2
<i>Helianthus divaricatus</i>	Woodland Sunflower	3	PRO;BRI;WAS	C	G5	
<i>Liatris scariosa</i> var. <i>novae-angliae</i>	Northern Blazing Star	4	WAS;BLO	SE	G5T3	Div 1
<i>Prenanthes serpentaria</i>	Lion's-foot	1*	PRO	C	G5	Div 2
<i>Rudbeckia laciniata</i>	Green-headed Coneflower	1	PRO	ST	G5	
<i>Sclerolepis uniflora</i>	Sclerolepis	1	PRO	SE	G4	Div 2
<i>Solidago elliotii</i>	Elliott's Goldenrod	2	BLO;WAS	C	G5	
<i>Solidago flexicaulis</i>	Zigzag Goldenrod	2	PRO	ST	G5	
<i>Solidago rigida</i>	Stiff-leaf Goldenrod	0 (1921)	WAS	SH	G5	Div 2
Berberidaceae (Barberry Family)						
<i>Caulophyllum thalictroides</i>	Blue Cohosh	2	PRO	ST	G5	
Boraginaceae (Borage Family)						
<i>Onosmodium virginianum</i>	False Gromwell	0 (1886)	PRO	SH	G4	Div 2

Species	Common Name	Extant Pop	Counties of Occurrence	State Status	Global Rank	NEPCoP List
Brassicaceae (Mustard Family)						
<i>Arabis drummondii</i>	Rock-cress	1*	PRO	C	G5	Div 3
<i>Arabis missouriensis</i>	Missouri Rock-cress	1*	PRO	C	G4	IND
<i>Draba reptans</i>	Carolina Whitlow-Grass	0 (1902)	PRO	SH	G5	Div 2
Caesalpiniaceae (Caesalpinia Family)						
<i>Senna hebecarpa</i>	Wild Senna	0 (1971)	KEN	SH	G5	
Campanulaceae (Bluebell Family)						
<i>Lobelia dortmanna</i>	Water Lobelia	9	PRO;WASC	G4		
Caprifoliaceae (Honeysuckle Family)						
<i>Linnaea borealis</i>	Twinflower	0 (1930)	WAS	SH	G5	
<i>Lonicera caerulea</i>	Mountain Fly-honeysuckle	2	KEN;WAS	C	G5	
<i>Lonicera dioica</i>	Mountain Honeysuckle	4	PRO;KEN;WAS	C	G5	
<i>Sambucus racemosa</i> var. <i>pubens</i>	Red-berried Elderberry	0 (1878)	PRO	SH	G5T4	
<i>Triosteum aurantiacum</i>	Wild Coffee	5	PRO;WASC	G5	Div 3	
<i>Triosteum perfoliatum</i>	Feverwort	4	PRO;WASC	G5	Div 2	
<i>Viburnum alnifolium</i>	Hobblebush	5	PRO	C	G5	
<i>Viburnum nudum</i> var. <i>nudum</i>	Swamp Haw	1	WAS	ST	G5	Div 2
Caryophyllaceae (Pink Family)						
<i>Arenaria caroliniana</i>	Pine Barren Sandwort	0 (1918)	WAS	SH	G5	Div 4
<i>Arenaria groenlandica</i> var. <i>glabra</i>	Smooth Sandwort	2	WAS	ST	G4	Div 2
<i>Arenaria stricta</i>	Rock Sandwort	1	NEW	SE	G5	
<i>Honckenya peploides</i> var. <i>robusta</i>	Seabeach Sandwort	6	NEW;WAS;BLO	C	G5T4	
<i>Silene stellata</i>	Starry Campion	0 (1935)	WAS	SH	G5	Div 2
<i>Spergularia canadensis</i>	Northern Sand-spurrey	1*	WAS	C	G5	
Chenopodiaceae (Goosefoot Family)						
<i>Atriplex glabriuscula</i>	Smooth Orache	2	WAS	C	G4	
<i>Chenopodium leptophyllum</i>	Goosefoot	2	NEW;WAS	C	G5	IND
Cistaceae (Rock-rose Family)						
<i>Helianthemum dumosum</i>	Bushy Rockrose	6	WAS;BLO	SE	G3	Div 1
<i>Helianthemum propinquum</i>	Low Rockrose	4	BRI;WAS	C	G4	
<i>Hudsonia ericoides</i>	Golden Heather	4	PRO;KEN;WAS	C	G4	
Clusiaceae (St. John's-wort Family)						
<i>Hypericum adpressum</i>	Creeping St. John's-wort	4	WAS	ST	G2G3	Div 1
Cuscutaceae (Dodder Family)						
<i>Cuscuta coryli</i>	Hazel-dodder	0	PRO	SH	G5	Div 2
Cornaceae (Dogwood Family)						
<i>Cornus rugosa</i>	Round-leaved Dogwood	4	PRO	C	G5	
Cyperaceae (Sedge Family)						
<i>Carex alata</i>	Winged Sedge	1*	BLO	C	G5	
<i>Carex albicans</i>	Covered Sedge	2*	PRO	C	G5	
<i>Carex buxbaumii</i>	Buxbaum's Sedge	1*	PRO	C	G5	Div 3
<i>Carex collinsii</i>	Collins' Sedge	0 (1979)	WAS	SH	G4	Div 2
<i>Carex cumulata</i>	Piled Sedge	3	PRO	C	G4	
<i>Carex exilis</i>	Bog Sedge	5	PRO;WASC	G5		
<i>Carex limosa</i>	Mud Sedge	0 (1892)	PRO	SH	G5	
<i>Carex mitchelliana</i>	Mitchell's Sedge	1*	PRO	C	G3G4	Div 1
<i>Carex pedunculata</i>	Long-stalked Sedge	2	PRO	ST	G5	
<i>Carex polymorpha</i>	Variable Sedge	1	PRO	SE	G3	Div 1
<i>Carex schweinitzii</i>	Schweinitz's Sedge	0 (1895)	PRO	SH	G3	Div 1
<i>Carex sparganioides</i>	Burreed-like Sedge	0 (1948)	PRO	SH	G5	Div 3
<i>Carex sterilis</i>	Sterile Sedge	0 (1878)	PRO	SH	G4	Div 2
<i>Carex striata</i> var. <i>brevis</i>	Walter's Sedge	1	WAS	SE	G4T4	Div 2
<i>Cyperus odoratus</i>	Fragrant Umbrella-sedge	1*	BLO	C	G5	IND
<i>Cyperus squarrosus</i>	Awned Umbrella-sedge	1	KEN	SE	G5	

Species	Common Name	Extant Pop	Counties of Occurrence	State Status	Global Rank	NEPCoP List
Cyperaceae (continued)						
<i>Eleocharis equisetoides</i>	Horsetail Spike-rush	8	PRO;KEN;WAS	C	G4	Div 2
<i>Eleocharis fallax</i>	Deceitful Spike-rush	0	WAS	SH	G4G5	Div 2
<i>Eleocharis melanocarpa</i>	Black-fruited Spike-rush	1	WAS	SE	G4	
<i>Eleocharis rostellata</i>	Small-beaked Spike-rush	4	BRI;WAS	C	G5	IND
<i>Eleocharis tricostata</i>	Three-angled Spike-rush	1	WAS	SE	G4	Div 2
<i>Eriophorum gracile</i>	Slender Cotton-grass	2	PRO;WASST	G5		
<i>Eriophorum vaginatum</i> var. <i>spissum</i>	Hare's Tail	0 (1904)	PRO	SH	G5T5	
<i>Eriophorum viridicarinatum</i>	Bog Cotton-grass	2	KEN;WAS	C	G5	
<i>Fuirena pumila</i>	Umbrella Grass	2	WAS	SE	G4	Div 3
<i>Lipocarpus micrantha</i>	Tiny-flowered Sedge	2	KEN;WAS	ST	G4	
<i>Rhynchospora inundata</i>	Inundated Horned Rush	4	PRO;WASSE	G3G4	Div 2	
<i>Rhynchospora macrostachya</i>	Tall Beaked Rush	5	PRO;KEN;WAS	ST	G4	
<i>Rhynchospora scirpoides</i>	Long-beaked Bald Rush	2	WAS	SE	G4	
<i>Rhynchospora torreyana</i>	Torrey's Beaked Rush	1	WAS	SE	G4	Div 2
<i>Scirpus etuberculatus</i>	Swamp Bulrush	1	WAS	SE	G3G4	Div 1
<i>Scirpus hudsonianus</i>	Northern Cotton-grass	0 (1907)	PRO	SH	G5	
<i>Scirpus longii</i>	Long's Bulrush	1	WAS	SE	G2	Div 1
<i>Scirpus maritimus</i>	Saltmarsh Bulrush	4	BRI;NEW	C	G5	Div 2
<i>Scirpus smithii</i>	Smith's Bulrush	3	WAS	ST	G5	
<i>Scirpus subterminalis</i>	Water Bulrush	3	NEW;WAS	C	G4G5	
<i>Scirpus torreyi</i>	Torrey's Bulrush	3	WAS	C	G5	
<i>Scleria pauciflora</i>	Carolina-whipgrass	3	WAS	ST	G5	Div 2
<i>Scleria reticularis</i>	Reticulated Nut-rush	3	WAS	ST	G3G4	Div 1
<i>Scleria triglomerata</i>	Whipgrass	2	WAS	ST	G5	Div 2
Droseraceae (Sundew Family)						
<i>Drosera filiformis</i>	Thread-leaved Sundew	0 (1988)	WAS	SH	G5	
Elatinaceae (Waterwort Family)						
<i>Elatine triandra</i> var. <i>americana</i>	American Waterwort	2	WAS;BLO	C	G4	IND
Ericaceae (Heath Family)						
<i>Andromeda glaucophylla</i>	Bog Rosemary	1	PRO	SE	G5	
<i>Gaultheria hispidula</i>	Creeping Snowberry	2	PRO	ST	G5	
<i>Gaylussacia dumosa</i> var. <i>bigeloviana</i>	Dwarf Huckleberry	4	PRO;WASC	G5T4		
<i>Kalmia polifolia</i>	Pale Laurel	2	PRO	ST	G5	
<i>Lyonia mariana</i>	Staggerbush	0	WAS	SH	G5	Div 4
<i>Rhododendron periclymenoides</i>	Pinxter-flower	1*	WAS	C	G5	
Fabaceae (Bean Family)						
<i>Crotalaria sagittalis</i>	Rattlebox	1	WAS	ST	G5	
<i>Desmodium ciliare</i>	Small-leaved Tick-trefoil	2	PRO;WASST	G5		
<i>Desmodium sessilifolium</i>	Sessile-leaved Tick-trefoil	2	WAS	ST	G5	Div 2
<i>Lupinus perennis</i>	Wild Lupine	8	PRO;KEN;WAS	C	G5	Div 3
<i>Strophostyles umbellata</i>	Pink Wild Bean	1	KEN	ST	G5	
<i>Tephrosia virginiana</i>	Goat's-rue	6	PRO;KEN;WAS	C	G5	
Fagaceae (Oak Family)						
<i>Quercus prinoides</i>	Dwarf Chestnut Oak	7	KEN;WAS	C	G5	
<i>Quercus stellata</i>	Post Oak	2	WAS	C	G5	
Fumariaceae (Fumitory Family)						
<i>Adlumia fungosa</i>	Climbing Fumitory	2	PRO	SE	G4	
<i>Corydalis sempervirens</i>	Pale Corydalis	10	PRO;KEN;WAS	C	G4G5	
Gentianaceae (Gentian Family)						
<i>Gentiana andrewsii</i>	Closed Gentian	0 (1915)	PRO	SH	G4	Div 2
<i>Gentianopsis crinita</i>	Fringed Gentian	4	PRO;KEN;WAS	ST	G4	
<i>Sabatia kennedyana</i>	Plymouth Gentian	4	NEW;WAS	SE	G3	Div 1
<i>Sabatia stellaris</i>	Sea-pink	4	WAS	ST	G5	Div 2
Geraniaceae (Geranium Family)						
<i>Geranium bicknellii</i>	Bicknell's Geranium	1	PRO	ST	G5	
<i>Geranium robertianum</i>	Herb-Robert	3	NEW	C	G5	

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Grossulariaceae (Gooseberry Family)						
<i>Ribes hirtellum</i>	Smooth Gooseberry	4	KEN;WAS	C	G5	
Haemodoraceae (Bloodwort Family)						
<i>Lachnanthes caroliniana</i>	Carolina Redroot	4	KEN;WAS	ST	G4	
Haloragaceae (Water-milfoil Family)						
<i>Myriophyllum alterniflorum</i>	Alternate-flowered Water-milfoil	0 (1864)	PRO	SH	G5	IND
<i>Myriophyllum pinnatum</i>	Pinnate Water-milfoil	2	WAS;BLO	ST	G5	
<i>Proserpinaca pectinata</i>	Comb-like Mermaid-weed	1*	WAS	C	G5	
Iridaceae (Iris Family)						
<i>Sisyrinchium fuscatum</i>	Sandplain Blue-eyed Grass	0 (1900)	WAS	SH	G5	
Juncaceae (Rush Family)						
<i>Juncus debilis</i>	Weak Rush	1	WAS	ST	G5	Div 2
Juncaginaceae (Arrow-grass Family)						
<i>Triglochin palustre</i>	Arrow-grass	0 (1878)	NEW	SH	G5	
Lamiaceae (Mint Family)						
<i>Hedeoma pulegioides</i>	American Pennyroyal	4	PRO	C	G5	Div 3
<i>Lycopus rubellus</i>	Stalked Water-horehound	2*	PRO;WASC	G5	Div 2	
<i>Monarda fistulosa</i>	Wild Bergamot	0 (1965)	WAS	SH	G5	
<i>Physostegia virginiana</i>	False Dragonhead	2	KEN	C	G5	
<i>Stachys hyssopifolia</i>	Hyssop-leaved Hedge-nettle	3	WAS	ST	G5	
Lentibulariaceae (Bladderwort Family)						
<i>Utricularia biflora</i>	Two-flowered Bladderwort	2	WAS	ST	G5	Div 2
<i>Utricularia geminiscapa</i>	Paired Bladderwort	5	WAS	C	G4G5	
<i>Utricularia gibba</i>	Humped Bladderwort	4	PRO;KEN;WAS	C	G5	
<i>Utricularia intermedia</i>	Flat-leaved Bladderwort	2	PRO;KEN	C	G5	Div 2
<i>Utricularia minor</i>	Small Bladderwort	0 (1920)	PRO	SH	G5	
<i>Utricularia resupinata</i>	Reversed Bladderwort	4	WAS	C	G4	
<i>Utricularia subulata</i>	Zigzag Bladderwort	4	PRO;WASC	G5	Div 2	
Liliaceae (Lily Family)						
<i>Alettris farinosa</i>	Colicroot	8	PRO;KEN;WAS	C	G5	
<i>Allium tricoccum</i>	Wild Leek	3	PRO;KEN;NEW	C	G5	
<i>Lilium canadense</i>	Canada Lily	3	PRO	ST	G5	
<i>Lilium philadelphicum</i>	Wood Lily	9	PRO;KEN;WAS	C	G5	
<i>Smilacina trifolia</i>	3-leaved False Solomon's Seal	1	PRO	ST	G5	
<i>Streptopus roseus</i>	Rose Twisted-stalk	2	PRO	ST	G5	
<i>Trillium erectum</i>	Purple Trillium	2	PRO;KEN ST	G5		
Linaceae (Flax Family)						
<i>Linum intercursum</i>	Sandplain Flax	1	WAS	SE	G4	Div 2
<i>Linum medium</i> var. <i>texanum</i>	Common Yellow Flax	1*	WAS	C	G5T5	
<i>Linum sulcatum</i>	Grooved Flax	0 (1844)	PRO	SH	G5	
Lythraceae (Loosestrifes)						
<i>Rotala ramosior</i>	Toothcup	1	KEN	SE	G5	Div 2
Oleaceae (Ash Family)						
<i>Fraxinus nigra</i>	Black Ash	6	PRO;KEN C	G5		
Onagraceae (Evening-primrose Family)						
<i>Circaea alpina</i>	Small Enchanter's Nightshade	4	PRO;KEN C	G5		Div 2
<i>Epilobium palustre</i>	Marsh Willow-herb	1	WAS	ST	G5	
<i>Ludwigia sphaerocarpa</i>	Round-fruited False Loosestrife	1	WAS	SE	G5	
Orchidaceae (Orchids)						
<i>Arethusa bulbosa</i>	Swamp Pink	4	PRO;KEN;WAS	SE	G4	Div 3
<i>Calopogon tuberosus</i>	Grass Pink	7	PRO;KEN;WAS	C	G5	
<i>Coeloglossum viride</i> var. <i>virescens</i>	Long-bracted Green Orchis	2	PRO	ST	G5T5	
<i>Corallorhiza maculata</i>	Large Coralroot	7	PRO;KEN	C	G5	Div 3
<i>Corallorhiza odontorhiza</i>	Autumn Coralroot	1	PRO	SE	G5	

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Orchidaceae (continued)						
<i>Corallorhiza trifida</i>	Early Coralroot	4	PRO;KEN	C	G5	
<i>Cypripedium calceolus</i> var. <i>parviflorum</i>	Small Yellow Lady-slipper	2	PRO	SE	G5	IND
<i>Cypripedium calceolus</i> var. <i>pubescens</i>	Large Yellow Lady-slipper	3	PRO	SE	G5	IND
<i>Isotria medeoloides</i>	Small Whorled Pogonia	1	PRO	FT	G2G3	Div 1
<i>Liparis lilifolia</i>	Lily-leaved Twayblade	2	PRO;KEN	SE	G5	Div 2
<i>Liparis loeselii</i>	Yellow Twayblade	2	PRO;NEW	ST	G5	
<i>Listera cordata</i>	Heartleaf Twayblade	0 (1897)	WAS	SH	G5	Div 3
<i>Malaxis unifolia</i>	Green Adder's-mouth	1	PRO	SE	G5	
<i>Galearis spectabilis</i>	Showy Orchis	1	PRO	SE	G5	
<i>Platanthera blephariglottis</i>	White Fringed Orchid	4	BRI;KEN;WAS	ST	G4G5	
<i>Platanthera ciliaris</i>	Yellow Fringed Orchid	2	WAS	SE	G5	Div 2
<i>Platanthera flava</i> var. <i>herbiola</i>	Pale Green Orchid	4	NEW;KEN;WAS; BLO	SE	G4T4	
<i>Platanthera hookeri</i>	Hooker's Orchid	0 (1983)	PRO	SH	G5	
<i>Platanthera hyperborea</i>	Northern Green Orchid	2	PRO	ST	G5	
<i>Platanthera orbiculata</i>	Round-leaved Orchid	1	PRO	ST	G5	
<i>Platanthera orbiculata</i> var. <i>macrophylla</i>	Large Round-leaved Orchid	1	PRO	ST	G5T4	
<i>Platanthera psycodes</i>	Small Purple Fringed Orchid	9	PRO;KEN;WAS	C	G5	
<i>Spiranthes lucida</i>	Shining Ladies'-tresses	0 (1960)	PRO	SH	G5	
<i>Spiranthes tuberosa</i>	Little Ladies'-tresses	1	WAS	SE	G5	
<i>Spiranthes vernalis</i>	Spring Ladies'-tresses	3	NEW;WAS	C	G5	
Orobanchaceae (Broom-rape Family)						
<i>Conopholis americana</i>	Squaw-root	8	PRO;NEW;WAS	C	G5	
Oxalidaceae (Wood sorrel Family)						
<i>Oxalis violacea</i>	Violet Wood-sorrel	3	NEW;WAS	SE	G5	Div 2
Papaveraceae (Poppy Family)						
<i>Sanguinaria canadensis</i>	Bloodroot	6	PRO;KEN;WAS	C	G5	
Poaceae (Grass Family)						
<i>Aristida longespica</i>	Slim-spike Three-awn	6	PRO;BRI;NEW; KEN;WAS	C	G5	
<i>Aristida purpurascens</i>	Purple Needlegrass	2	BLO	ST	G5	Div 2
<i>Elymus villosus</i>	Downy Wild Rye	1*	PRO	C	G5	Div 2
<i>Leptochloa fascicularis</i> var. <i>maritima</i>	Saltpond Grass	0 (1913)	BLO	SH	G5T3	Div 1
<i>Oryzopsis pungens</i>	Northern Ricegrass	1*	WAS	C	G5	
<i>Panicum amarum</i>	Panic-grass	1*	WAS	C	G5	
<i>Panicum philadelphicum</i>	Philadelphia Panic-grass	1*	WAS	C	G5	
<i>Panicum rigidulum</i>	Long-leaved Panic-grass	1*	WAS	C	G5	
<i>Panicum wrightianum</i>	Wright's Panic-grass	2	WAS	C	G4	
<i>Paspalum setaceum</i> var. <i>psammophilum</i>	Tufted Beard-grass	1*	NEW	C	G5T4	Div 2
<i>Poa languida</i>	Weak Bluegrass	1*	WAS	C	G3G4	
<i>Puccinellia pumila</i>	Goosegrass	0 (1917)	WAS	SH	G4	
<i>Setaria geniculata</i>	Bristly Foxtail	1*	BRI	C	G5	
<i>Sorghastrum nutans</i>	Indian Grass	5	BRI;KEN;WAS;BLO	C	G5	Div 3
<i>Spartina cynosuroides</i>	Salt Reed Cordgrass	1*	PRO;KEN	C	G5	Div 2
<i>Sphenopholis nitida</i>	Shining Sphenopholis	1*	PRO	C	G5	Div 2
<i>Sphenopholis obtusata</i>	Prairie Wedgegrass	1*	PRO	C	G5	IND
<i>Sphenopholis pensylvanica</i>	Swamp Oats	0	PRO	SH	G4	Div 2
<i>Sporobolus asper</i>	Tall Dropseed	1*	WAS	C	G5	
<i>Tripsacum dactyloides</i>	Northern Gama-grass	8	BRI;NEW;WAS	C	G5	Div 2
<i>Zizania aquatica</i>	Wild Rice	6	KEN;WAS	C	G5	
Podostemaceae (River-weed Family)						
<i>Podostemum ceratophyllum</i>	Riverweed	0 (1890)	PRO	SH	G5	
Polygalaceae (Milkwort Family)						
<i>Polygala cruciata</i>	Cross-leaved Milkwort	3	NEW;WAS	C	G5	
<i>Polygala verticillata</i>	Whorled Milkwort	3	NEW;WAS	C	G5	IND
Polygonaceae (Buckwheat Family)						
<i>Polygonum glaucum</i>	Seabeach Knotweed	3	NEW;BLO	ST	G3	Div 1
<i>Polygonum hydropiperoides</i> var. <i>setaceum</i>	Strigose Knotweed	0 (1924)	WAS	SH	G5	IND

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Portulacaceae (Purslane Family)						
<i>Claytonia virginica</i>	Meadow Beauty	0 (1838)	PRO	SH	G5	
Potamogetonaceae (Pondweed Family)						
<i>Potamogeton confervoides</i>	Alga-pondweed	0 (1929)	WAS	SH	G3G4	Div 1
<i>Potamogeton pusillus</i> var. <i>gemmiparus</i>	Slender Pondweed	1*	PRO	C	G5T3	IND
Primulaceae (Primrose Family)						
<i>Glaux maritima</i>	Sea Milkwort	0 (1917)	WAS	SH	G5	
<i>Hottonia inflata</i>	Featherfoil	6	PRO;NEW;WAS	C	G4	
Pyrolaceae (Shinleaf Family)						
<i>Moneses uniflora</i>	One-flowered Wintergreen	2	PRO	ST	G5	
<i>Pyrola chlorantha</i>	Green Pyrola	4	PRO;KEN	C	G5	
<i>Pyrola secunda</i>	One-sided Pyrola	2	PRO	ST	G5	
Ranunculaceae (Buttercup Family)						
<i>Actaea rubra</i>	Red Baneberry	5	PRO;KEN	C	G5	
<i>Anemone cylindrica</i>	Long-fruited Anemone	3	PRO	C	G5	
<i>Anemone virginiana</i>	Large Anemone	0 (1950)	PRO	SH	G5	
<i>Anemonella thalictroides</i>	Rue Anemone	5	PRO;WASC	G5		
<i>Clematis occidentalis</i>	Purple Clematis	1	PRO	SE	G5	
<i>Hepatica americana</i>	Hepatica	5	PRO	C	G5	
<i>Ranunculus allegheniensis</i>	Allegheny Crowfoot	1*	PRO	C	G4G5	Div 2
<i>Ranunculus ambigens</i>	Water-plantain Spearwort	1*	NEW	C	G4	Div 2
<i>Ranunculus cymbalaria</i>	Seaside Buttercup	0 (1948)	WAS	SH	G5	
<i>Ranunculus flabellaris</i>	Yellow Water-crowfoot	4	PRO	C	G5	
<i>Ranunculus hispidus</i> var. <i>hispidus</i>	Hispid Buttercup	1*	PRO	C	G5	IND
<i>Ranunculus micranthus</i>	Small-flowered Crowfoot	1	PRO	ST	G5	Div 2
<i>Ranunculus sceleratus</i>	Cursed Crowfoot	3	PRO;BRI	C	G5	
<i>Ranunculus trichophyllus</i> var. <i>calvescens</i>	White Water-crowfoot	1	WAS	ST	G5	
<i>Thalictrum revolutum</i>	Purple Meadow-rue	0 (1900)	PRO	SH	G5	
Rosaceae (Rose Family)						
<i>Agrimonia pubescens</i>	Hairy Agrimony	0 (1912)	PRO	SH	G5	
<i>Dalibarda repens</i>	Dewdrop	1	PRO	SE	G5	
<i>Geum laciniatum</i>	Hairy Herb-Bennet	0 (1920)	PRO	SH	G5	
<i>Potentilla tridentata</i>	Three-toothed Cinquefoil	0 (1979)	WAS	SH	G5	
<i>Prunus pumila</i> var. <i>cuneata</i>	Sand Cherry	3	KEN;WAS	C	G5T4	
<i>Sanguisorba canadensis</i>	Canadian Burnet	1	WAS	SE	G5	
Rubiaceae (Madder Family)						
<i>Hedyotis longifolia</i>	Long-leaved Bluets	0 (1966)	WAS	SH	G4G5	
Salicaceae (Willow Family)						
<i>Populus heterophylla</i>	Swamp Cottonwood	1	WAS	ST	G5	Div 2
<i>Salix pedicellaris</i>	Bog Willow	0 (1970)	PRO	SH	G5	
Saururaceae (Lizard's-tail Family)						
<i>Saururus cernuus</i>	Lizard's-tail	1	NEW	SE	G5	Div 2
Saxifragaceae (Saxifrage Family)						
<i>Parnassia glauca</i>	Grass-of-Parnassus	0 (1980)	PRO	SH	G5	
<i>Penthorum sedoides</i>	Ditch Stonecrop	7	PRO;KEN;WAS	C	G5	
<i>Saxifraga pensylvanica</i>	Swamp Saxifrage	5	PRO	C	G5	
<i>Saxifraga virginiensis</i>	Early Saxifrage	10	PRO;BRI;NEW	C	G5	
Scheuchzeriaceae (Pod-grass Family)						
<i>Scheuchzeria palustris</i>	Pod-grass	1	WAS	SE	G5	
Scrophulariaceae (Figwort Family)						
<i>Agalinis acuta</i>	Sandplain Gerardia	1	WAS	FE	G1	Div 1
<i>Agalinis tenuifolia</i>	Slender Gerardia	9	PRO;NEW	C	G5	
<i>Castilleja coccinea</i>	Painted Cup	0 (1908)	PRO	SH	G5	Div 2
<i>Gratiola virginiana</i>	Virginia Hedge-hyssop	1*	BLO	C	G4G5	Div 2
<i>Limosella subulata</i>	Mudwort	5	NEW;WAS;BLO	C	G4G5	
<i>Penstemon digitalis</i>	Tall White Beard-tongue	2*	PRO	C	G5	

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Scrophulariaceae (continued)						
<i>Penstemon hirsutus</i>	Northeastern Beard-tongue	1*	PRO	C	G4	
<i>Scrophularia lanceolata</i>	Hare Figwort	4	PRO;NEW;WAS	C	G5	
<i>Scrophularia marilandica</i>	Maryland Figwort	2	WAS	ST	G5	
Ulmaceae (Elm Family)						
<i>Ulmus rubra</i>	Slippery Elm	3	PRO;KEN C	G5		
Violaceae (Violet Family)						
<i>Viola canadensis</i>	Canada Violet	0 (1920)	PRO	SH	G5	
<i>Viola palmata</i>	Palmate-leaved Violet	2	PRO	ST	G5	IND
<i>Viola pubescens</i>	Smooth Yellow Violet	3	PRO;KEN	C	G5	
<i>Viola rotundifolia</i>	Round-leaved Yellow Violet	3	PRO	C	G5	
Viscaceae (Christmas-mistletoe Family)						
<i>Arceuthobium pusillum</i>	Dwarf Mistletoe	1	PRO	SE	G5	
Xyridaceae (Yellow-eyed Grass Family)						
<i>Xyris montana</i>	Northern Yellow-eyed Grass	3	PRO;WASST	G4		